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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/753,498	01/09/2004	Soo Young Oh	0630-1914P	6820
2292	7590 03/21/2006		EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			HUSBAND, SARAH E	
PO BOX 747	RCH, VA 22040-0747		ART UNIT	PAPER NUMBER
TALLS CHOKCH, VIC 22010 0717			1746	
			DATE MAILED: 03/21/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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<del></del>		Application No.	Applicant(s)					
Office Action Summary		10/753,498	OH ET AL.					
		Examiner	Art Unit					
		Sarah E. Husband	1746					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
	ORTENED STATUTORY PERIOD FOR REP	VIC SET TO EVDIDE 2 MONTH	J(C) OD THIDTY (30)	DAVS				
VVHIC - Exte after - If NC - Failu Any	CHEVER IS LONGER, FROM THE MAILING [ nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication 1 D period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply within the set or extended period for reply will, by stature to reply will will be reply will be re	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS frow the cause the application to become ABANDON	ON. timely filed m the mailing date of this comn IED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 05.	January 2006.						
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 1-18 is/are pending in the applicatio 4a) Of the above claim(s) 8-18 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/	vn from consideration.						
Applicat	ion Papers							
9)🖾	The specification is objected to by the Examin	er.						
10)⊠ The drawing(s) filed on <u>09 January 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·	• •					
11)	Replacement drawing sheet(s) including the corre The oath or declaration is objected to by the E	, =: :	=					
Priority (	under 35 U.S.C. § 119							
a)	Acknowledgment is made of a claim for foreig  All b) Some * c) None of:  1. Certified copies of the priority documer  2. Certified copies of the priority documer  3. Copies of the certified copies of the pri application from the International Bures  See the attached detailed Office action for a list	nts have been received. nts have been received in Applica ority documents have been recei au (PCT Rule 17.2(a)).	ation No ved in this National St	age				
Attachmen		a) 🗖 Indention 6	n/ (PTO 442)					
2) Notic	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail	Date					
3) 🔯 Information	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 er No(s)/Mail Date <u>リクフ/</u> クケ	5) Notice of Informal 6) Other:	Patent Application (PTO-15	o2)				

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### **DETAILED ACTION**

## Election/Restrictions

Applicant's election with traverse of Species 1 in the reply filed on 1/5/2006 is acknowledged. The traversal is on the ground(s) that a reasonable number of species is permitted and would be in the same area of searching. This is not found persuasive because each individual species would require an independent and different search strategy, and because there are a large number of species, this would cause an undue burden on the Examiner.

The requirement is still deemed proper and is therefore made FINAL.

# Specification

The disclosure is objected to because of the following informalities: header (page 2, line 10), supply lint (page 7, line 14).

Thorough proofreading and appropriate correction is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jenkins (GB 21286) in view of Nordin (US Patent No. 3,705,602) or Featheringill (US Patent No. 6,397,874).

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Jenkins discloses a washing machine having a steam input and therefore also a steam generator which would inherently be present to produce the steam (page 2, lines 45-50). Jenkins also discloses a spray nozzle (D, E) communicating with the steam supply and circulation water supply and a circulation pump for pumping circulated water discharged from a tub and returning to the drum (page 3, lines 1-5). Jenkins further discloses a backcurrent preventing branch unit (Fig. 3, Item G3) preventing the flow of circulation water to the steam nozzle during the addition of steam (page 3, ll. 20-25; see entire document as well). Jenkins does not specifically disclose the back-current preventing unit limiting the flow of circulation water into the steam generator while the circulation water is being emptied into the tub or having a plate rotatable by a hinge and rested on protrusions. Featheringill discloses a back-current preventing plate limiting the flow of two streams and also discloses the plate is rotatable by a hinge (see Fig. 2, 6 and 7). Featheringill also discloses surfaces (protrusions) where the back-current prevention plate is attached (Fig. 2, Items 136, 113). Nordin discloses a back-current preventing plate, which is rotatable by springs and protrusions as well (Fig. 1, 2, Items 5-7,11). At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Jenkins with Nordin (or Featheringill) for the benefit of reducing contamination of the steam supply line and also for having control over the two flow lines simultaneously.

Claims 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jenkins and Nordin (or Featheringill) as applied to claims 1-4 above, and further in view of Love (US Patent No. 5,491,857).

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Jenkins and Nordin (or Featheringill) disclose the apparatus shown above in the 103(a) rejection. They do not expressly disclose a nozzle unit having a flange and guide or spray angles of certain degrees. Love discloses a nozzle having a flange and guide (see Fig. 2) and also having certain spray angles of 90° and 30°-40° (col. 4, ll. 35-55). At the time of the invention, it would have been obvious to one of ordinary skill in the art to modify Jenkins and Nordin (or Featheringill) with Love for the benefit of an improved dispersal of fluid and wetting of clothing.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art not disclosed are Larson (US 6006398), Guerrero-Parra (US 5953939), Ostergaard (US 4687138), Geschka (US 3672188), Felzer (US 5161394), Mandry (US 1646299), Muller (US 4204339), Wasinger (US 5313811) and Dillman (US 5130078), who disclose steam-cleaning apparatus.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sarah E. Husband whose telephone number is (571) 272-8387. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael E. Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SEH 3/12/2006

MICHAEL BARR SUPERVISORY PATENT EXAMINER